

BEST PRACTICES BY PROJECT MANAGEMENT AREA	PRINCIPAL BEST PRACTICES									
	Formal Risk Management	Agreement on Interfaces	Formal Inspections	Metrics-based Scheduling and Management	Binary Quality Gates at the Intra-People Level	Program-wide Visibility of Progress vs. Plan	Defect Tracking Against Quality Targets	Configuration Management	People-Aware Management Accountability	Enabling Practice/Mechanism
RISK MANAGEMENT	Establish Management Reserves for Risk Resolution	X								
	Implement Metrics-based Risk Decisions	X								
	Perform Continuous Risk Management	X								
	Formalize Risk Tracking and Review	X								
	Manage Impact of External Dependencies	X	X							
PLANNING	Quantitative Software Estimation/Verification			X						X
	Joint Team Involvement	X								
	Activity Planning									X
	Data Requirements	X								
PROGRAM VIABILITY	Practical Project-Oriented Software Measurement Process			X						
	Issue-Driven Measures			X		X				
	Internal Engineering Analysis Process					X				
	Effective Communication Structure		X			X				
PROGRAM CONTROL	Test Methodology				X		X			X
	Regression Testing				X		X			X
	Computer-Aided Software Testing				X		X			X
	Error Source Location						X			
	Independent Verification and Validation (W&V)		X				X			X
TECHNICAL QUALITY ASSURANCE	Quality Gate Completion Criteria				X					
	Configuration Management Coverage							X		
	Requirements Change Management							X		
	Baseline Methodology							X		
	Technical Quality Assurance				X					
ENGINEERING PRACTICES AND CULTURE	Include User in a Multi-Disciplined Requirements Support Team	X								
	Encourage Compatible Analyses and Design Methods									X
	Encourage Software Architecture Definition and Maintenance		X							
	Encourage Requirements Engineering Process that Includes Use of Prototypes, Models and Simulations	X								
	Encourage Proactive Change Impact Analysis							X		
	Plan for Domain Engineering in Acquisitions		X							X
	Encourage Use of Clean Room Techniques									X
	Enterprise Practices Tailored to Projects									X
	Encourage Use of Software Development Standards such as MIL-STD-498		X						X	
	Assessing Organizational Effectiveness								X	
PROCESS IMPROVEMENT	Identifying and Fostering Sponsorship								X	X
	Establishing/Maintaining the Framework for Process Improvement									X
	Assessing/Reassessing an Organization's Process Quality									X
	Developing a Software Process Improvement Plan									X
	Institutionalizing the Software Process Improvement Plan									X
SOLICITATION AND CONTRACTING	Closing the Loop for Software Process Improvement									X
	Management of COTS, Reuse and Emerging Technologies									X
	Employ a Customer/Contractor Integrated Project Team	X								
	Use of Periodic Demos		X							X
	Utilize Software Development Capability Evaluation (SDCE)									X

FIGURE 6.1 RELATIONSHIP BETWEEN PRINCIPAL BEST PRACTICES AND BEST PRACTICES BY PROJECT MANAGEMENT AREA